

CLAIMS

1. A telephone network comprising:

at least one switching device which receives incoming telephone calls and attempts to establish a telephonic connection with at least one callee, said switch comprising:

an identification device which retrieves calling information associated with the incoming telephone calls;

a network communications interface device in connection with identification device which transmits the calling information to a predetermined location on the data network and receives connection information which is employed by the switch to establish a telephone connection with the callee.

2. The telephone network of claim 1 wherein the data network is the Internet.

3.  
4. The telephone network of claim 1 wherein the network interface establishes a connection with a website on a network server which includes a programmable database that associates the calling information to destination information based on a predetermined association quality.

4.  
5. The telephone network of claim 4 wherein the switch further includes a searchable database which contains calling information for the incoming calls, which when identified provides the initiation of a search over the data network.

5.  
6. The telephone network of claim 4 wherein the programmable database converts the destination information depending on a current location of the subscriber.

6.  
7. The telephone network of claim 1 wherein the telephone network establishes connections between at least one of: a personal computer (PC) to PC, a PC to a telephone, a telephone to a telephone.

7.  
8. The telephone network of claim 1 wherein said switching device is a non-Advanced Intelligent Network switch.

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A communications information system comprising:

a network interface device in connection with a data network which provides for the receipt and transmission of data signals from a public switched telephone network;

a searchable database which contains communications information for selected parties, where selected portions of the communications information for each of the selected parties is identifiable based on an association value; and

a processor in connection with the network interface device which is programmable to search the database, and based on the data signal received, to locate the selected portions of the communication information for the selected parties, and then provide the selected portions of the to the network interface for transmission over the data network.

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10. The system of claim 8 wherein the association value is time of day in which data signal is received.

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11. The system of claim 8 wherein the processor provides a display graphic through which communications information may be manually selected by a subscriber.

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12. The system of claim 8 wherein data network is the Internet.

12  
13. The system of claim 8 wherein the data signal is received from a telephone network switch with a data network

connection, wherein the data signal is related to a telephone call information received at the switch.

<sup>13</sup>  
~~14~~. The system of claim <sup>8</sup>~~9~~ wherein the data signal is a telephone number for one of the selected parties.

<sup>14</sup>  
~~15~~. The system of claim <sup>8</sup>~~9~~ wherein the display graphic includes icons which are selectable to access the selected portions of the communications information.

<sup>15</sup>  
~~16~~. The system of claim <sup>8</sup>~~9~~ wherein the network interface provides for connections established over the data network from a personal computer.

<sup>16</sup>  
~~17~~. The system of claim <sup>15</sup>~~16~~ wherein the database is searchable through use of a personal computer and web browser.

<sup>17</sup>  
~~18~~. The system of claim <sup>8</sup>~~9~~ wherein the selected portion of the communications information is telephone numbers.

<sup>18</sup>  
~~19~~. The system of claim <sup>8</sup>~~9~~ wherein the telephone numbers include at least one of: home number, work number, cell phone number, pager number, IP telephony connection address.

<sup>19</sup>  
~~20~~. The system of claim <sup>8</sup>~~9~~ wherein the database includes at least one of: a date table for each of the subscribers wherein the date table includes customized routing information for the subscriber based on a particular date, a time of day table which includes the customized routing information based on a particular day and time of day the incoming call is received, and a paging

table which includes the customized information relating to the subscriber for receiving pages.

<sup>20</sup>  
~~21~~. The system of claim <sup>19</sup>~~20~~ wherein database is programmable to search the date table, the time of day table, and the pager table in a predetermined order.

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<sup>21</sup>  
~~22~~. A method for establishing a communication connection over a telephone network, comprising:

detecting an incoming communications signal;  
extracting a destination address from the communications signal;

establishing a connection over a data network with a database and performing a search of the database using the extracted search term;

identifying communications information in the database associated with the search term; and

retrieving the selected portion of the communications information from the database and using the communications information to establish a telephonic connection.

<sup>23</sup>  
~~23~~. The method of claim <sup>21</sup>~~22~~ wherein the data network is the Internet.

<sup>23</sup>  
~~24~~. The method of claim <sup>21</sup>~~22~~ further including the step of providing an interactive display graphic which through which the communications information in the database may be amended, added to and/or deleted.

<sup>24</sup>  
~~25~~. The method of claim <sup>21</sup>~~22~~ wherein the search in the database is performed in a date table included in the database which includes routing information based on a date the incoming communications signal is received.

<sup>25</sup>  
26. The method of claim <sup>24</sup>25 wherein if a search of the date table is unsuccessful, a the search is performed in a day and time of day table included in the database which includes the routing information based on day of the week and time of day the communications signal is received.

<sup>26</sup>  
<sup>27</sup>27. The method of claim <sup>25</sup>26 wherein if a search of the day and time of day table is unsuccessful a search is performed of a pager table in the database which includes pager routing information.

<sup>27</sup>  
<sup>28</sup>28. The method of claim <sup>26</sup>27 wherein the communications signal represents at least one of: a home telephone number, a work telephone number, a cell phone number, a fax machine telephone number, a pager number, and IP address for establishing an IP telephony connection.

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